Yintu Liu

List of Publications by Year
in descending order

19 papers	4,459 citations	430754 18 h-index	794469 19 g-index
19 all docs	19 docs citations	19 times ranked	2953 citing authors

#	Article	IF	Citations
1	Compromise and Synergy in Highâ€Efficiency Thermoelectric Materials. Advanced Materials, 2017, 29, 1605884.	11.1	1,098
2	Realizing high figure of merit in heavy-band p-type half-Heusler thermoelectric materials. Nature Communications, 2015, 6, 8144.	5.8	893
3	Band engineering of high performance p-type FeNbSb based half-Heusler thermoelectric materials for figure of merit zT > 1. Energy and Environmental Science, 2015, 8, 216-220.	15.6	469
4	High Efficiency Halfâ€Heusler Thermoelectric Materials for Energy Harvesting. Advanced Energy Materials, 2015, 5, 1500588.	10.2	380
5	High Band Degeneracy Contributes to High Thermoelectric Performance in pâ€Type Halfâ€Heusler Compounds. Advanced Energy Materials, 2014, 4, 1400600.	10.2	261
6	The intrinsic disorder related alloy scattering in ZrNiSn half-Heusler thermoelectric materials. Scientific Reports, 2014, 4, 6888.	1.6	213
7	Unique Role of Refractory Ta Alloying in Enhancing the Figure of Merit of NbFeSb Thermoelectric Materials. Advanced Energy Materials, 2018, 8, 1701313.	10.2	181
8	Enhancing the Figure of Merit of Heavyâ€Band Thermoelectric Materials Through Hierarchical Phonon Scattering. Advanced Science, 2016, 3, 1600035.	5.6	147
9	Demonstration of a phonon-glass electron-crystal strategy in (Hf,Zr)NiSn half-Heusler thermoelectric materials by alloying. Journal of Materials Chemistry A, 2015, 3, 22716-22722.	5.2	137
10	Enhanced Thermoelectric Performance in 18â€Electron Nb_{0.8}CoSb Halfâ€Heusler Compound with Intrinsic Nb Vacancies. Advanced Functional Materials, 2018, 28, 1705845.	7.8	124
11	Valleytronics in thermoelectric materials. Npj Quantum Materials, 2018, 3, .	1.8	104
12	Lanthanide Contraction as a Design Factor for Highâ€Performance Halfâ€Heusler Thermoelectric Materials. Advanced Materials, 2018, 30, e1800881.	11.1	101
13	Grain Boundary Scattering of Charge Transport in nâ€Type (Hf,Zr)CoSb Halfâ€Heusler Thermoelectric Materials. Advanced Energy Materials, 2019, 9, 1803447.	10.2	88
14	Thermoelectric properties of FeVSb half-Heusler compounds by levitation melting and spark plasma sintering. Intermetallics, 2013, 32, 39-43.	1.8	60
15	Anisotropic thermoelectric properties of layered compound SnSe 2. Science Bulletin, 2017, 62, 1663-1668.	4.3	60
16	Electron and phonon transport in Co-doped FeV0.6Nb0.4Sb half-Heusler thermoelectric materials. Journal of Applied Physics, 2013, 114, 134905.	1.1	54
17	Enhancing thermoelectric performance of FeNbSb half-Heusler compound by Hf-Ti dual-doping. Energy Storage Materials, 2018, 10, 69-74.	9.5	53
18	Are Solid Solutions Better in FeNbSbâ€Based Thermoelectrics?. Advanced Electronic Materials, 2016, 2, 1600394.	2.6	25

#	Article	IF	Citations
19	Reliable measurements of the Seebeck coefficient on a commercial system. Journal of Materials Research, 2015, 30, 2670-2677.	1.2	11